

Project 1

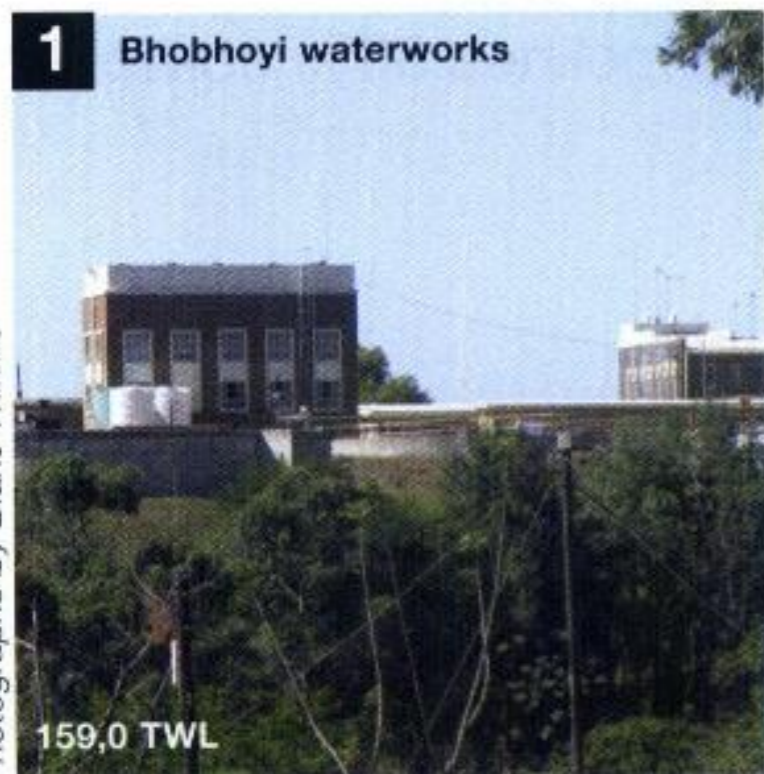
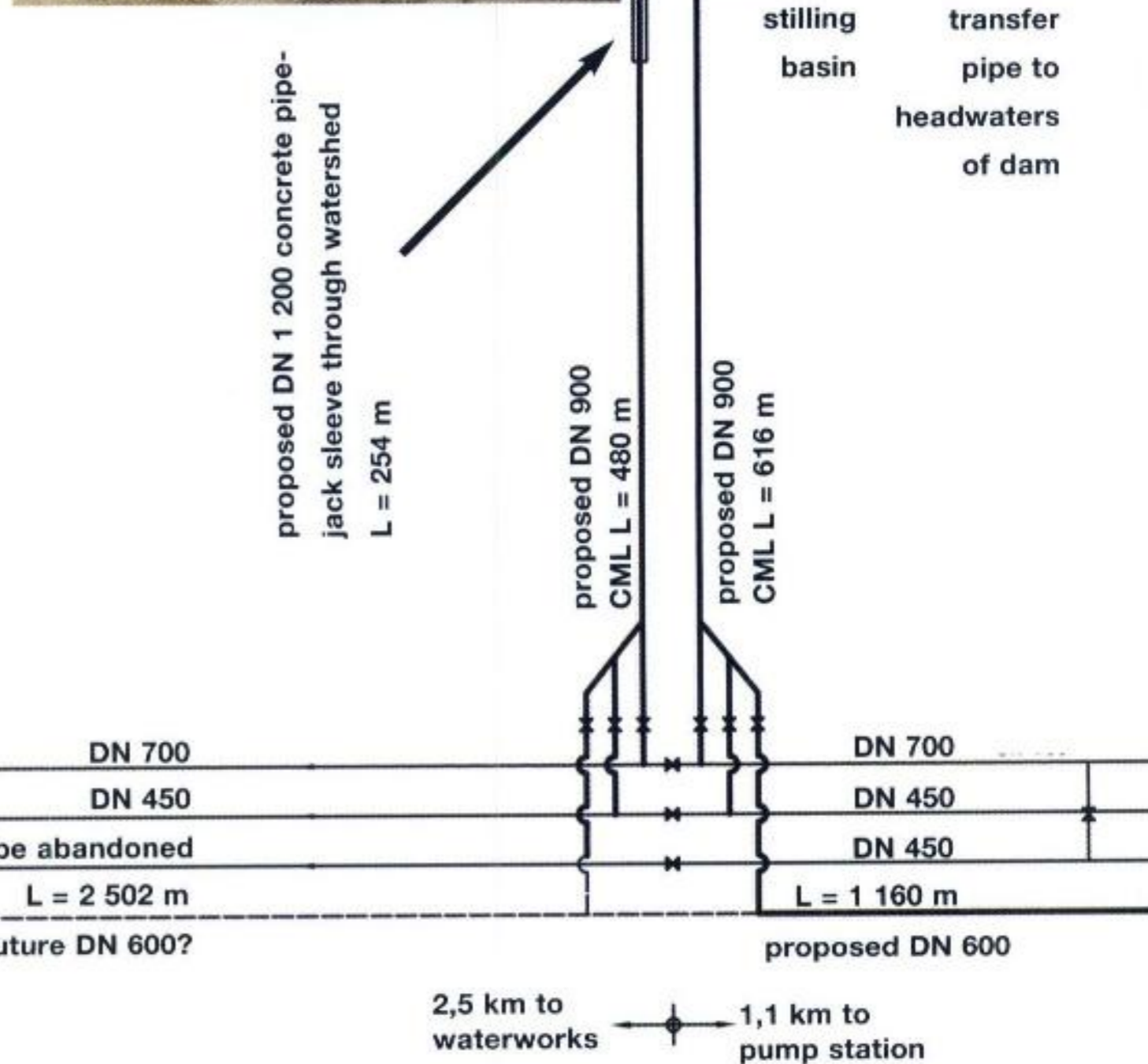
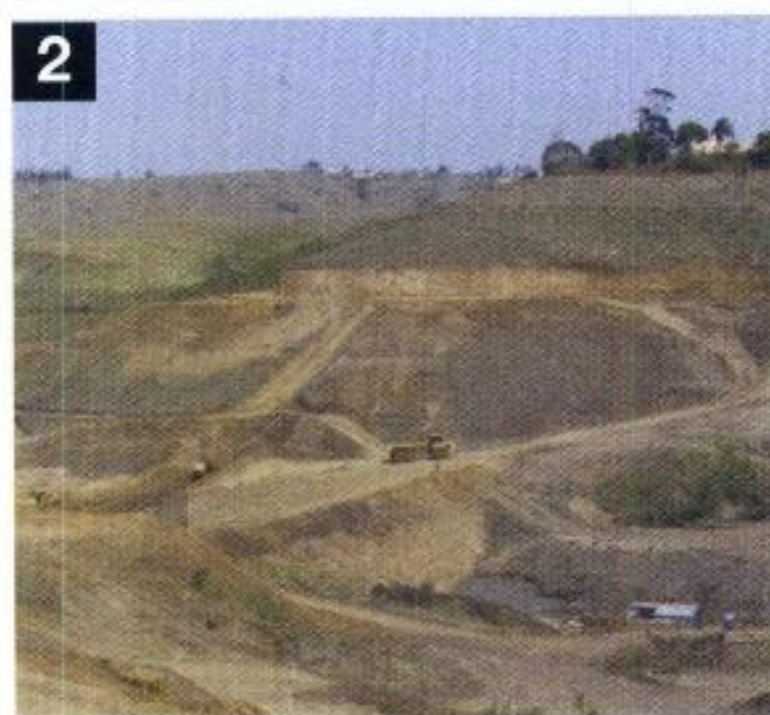
Mzimkulu water-augmentation scheme

This scheme provides water to the majority of consumers on the Lower South Coast, including Port Shepstone, Hibberdene, Margate and the inland rural areas.

Proposed raw-water supply system

Work in progress

- 1 Bhobhoi water-purification works** will be expanded in processing capacity after the completion of a R60-million upgrade – tenders are being prepared to carry out the work in two phases.
- 2 Mzimkulu Dam:** work is under way on the 870 000 kℓ dam being built 3 km from the Mzimkulu River.
- 3 St Helen's Rock high-lift pump station:** capacity is being doubled to 108 000 kℓ/day, including a new low-lift river abstraction system mirroring the existing two-pipe system, four new pumps and two settling tanks. The existing pump house was designed to accommodate additional pumps.



Photographs by Blake Wilkins

1 Bhobhoi waterworks

159,0 TWL

“Clearly, our largest water scheme had to be a priority in terms of meeting the needs of the majority of people in the district,” says Pawandiwa. “Once this project comes on stream in December 2011, we will be in a position to meet the needs of this part of the district for up to 15 years in terms of projected rates of population expansion. The bulk of the work is being funded by a R140-million loan from the DBSA with the balance from the MIG.”

Doubling pump station capacity

Expansion work is under way at the St Helen's Rock pump station on the Mzimkulu River; upstream of the sugar mill behind Port Shepstone. The pump station's capacity is being doubled to 108 000 kℓ/day and includes a new pipe-extraction system

mirroring the existing two-pipe system. Four new pumps and two settling tanks are included in the upgrade. SSI is the consulting engineer.

Two down, one to go

Two of the three contracts making up the off-channel storage dam project have already been completed: the supply of 2 km of 900 mm steel pipes (to link the dam to the existing pipelines) and the construction of a 245 m-long tunnel under a watershed between the dam and the existing system. The tunnel was constructed by WK Construction using the pipe-jacked sleeve method. The pipes were supplied by Zana Manzi Services.

The third contract, the construction of the dam itself and the laying of the link pipelines, is being undertaken by